COMPLETE INDEX
for
PERPETUAL TROUBLE SHOOTER'S MANUALS
Volumes I, II, III, IV, V, VI, VII, VIII, and IX

by

John F. Rider

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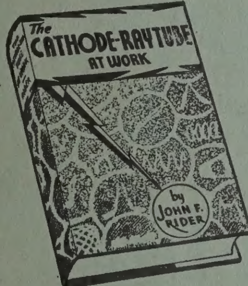
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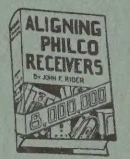

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AUTHOR'S FOREWORD

Volume IX is a continuation of the "Perpetual Trouble Shooter's Manual" series. In addition to this Manual, Volumes I, II, III, IV, V, VI, VII, and VIII have been published.

Inasmuch as owners of preceding manuals are familiar with the nature of their contents, an elaborate description is not required. However, it might be well to state that the information presented in Volume IX in connection with any one receiver, constitutes all of the data which was procurable. Wherever just a diagram is shown, let it be known that extended effort was made to secure additional information. Not being a part of the service data released by the manufacturer, it could not be included.

We focus particular attention upon this Index, which has been revised. Upon examination you will note that three columns of pages are shown, these covering all Manuals published thus far. The "Revised Pages" column is that for Volumes I, II, III, IV, V, VI, VII, VIII, and IX of the Manuals, which were arranged in such manner that each manufacturer's section started with the folio "1." We are referring to page numbers and not to the identification number, which establishes the volume.

The column headed "Early Pages" covers the early individual Volumes I and II supplied by dealers, purchased direct from the publisher and also supplied in tube deals by National Union, Raytheon, etc. Also the supplements to Volume I, originally purchased upon a yearly basis and which comprise Volume II.

The column headed "Radiotron Complete" refers to the pages found in the "Radiotron-Cunningham Complete Rider's Manual," which contained Volumes I, II and III. The Volume III supplied by the above-mentioned group in connection with tube deals was folioed exactly as the individual Volume III.

Thus this Index covers all Manuals and the use depends upon the Manuals possessed by the user. Additional data concerning the Index is given on a following page.

Volume IX picks up where all previous volume VIIIs left off. There is no duplication of contents between Volume IX and any preceding volumes of the "Perpetual Trouble Shooter's Manual" series.

Thus the man who owns Volumes I, II, III, IV, V, VI, VII, VIII, and IX of the "Perpetual Trouble Shooter's Manuals," has in his possession approximately 11,292 pages of service data, representing all the data we have released.

Comments and criticism concerning the contents and makeup of Volume IX are welcome.

—JOHN F. RIDER.

HOW TO USE THIS INDEX

This index covers all Rider's Manuals issued thus far. The three columns of pages are used to identify the pages employed in the various series of manuals published up to the present time. The column headed "Revised Pages" covers the nine individual Volumes I, II, III, IV, V, VI, VII, VIII, and IX which were arranged with a new type of folio. With respect to earlier editions of Rider's Manuals, the revised folios appear only in Volumes I and II.

Hence any material which appears in Volumes I or II is shown in the columns marked "Revised" and also "Early," establishing the correct page in either of these issues of manuals. Thus if you own the early editions of Volumes I and II and the regular editions of Volumes III, IV, V, VI, VII, VIII, and IX you will refer to the "Early" column for material in Volumes I and II and to the "Revised" column for material in subsequent volumes. This work is simplified by the fact that the "Early" column has its equivalent in the "Revised" column only for the material which has been shown in Volumes I and II.

Referring to the folios listed in the "Revised" column and covering all manuals, the number 1, before the page number, establishes the data as being in Volume I. The numeral 2 before the page number establishes the material as being in Volume II. The numeral 3 before the page number establishes the material as being in Volume III and the numeral 4 before the page number establishes the material as being in Volume IV, etc.

Concerning the pages listed in the "Early" column, all page numbers preceded by an asterisk (*) are in Volume I. All numbers which do not have an asterisk are in Volume II. The word "Front" shown in the "Early" column establishes that the material was shown in the front end of Volume II.

An example of the use of this index is as follows:

Electrical Research Laboratories, Inc.

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The receiver model 75, 77 (231) is on page Erla 2-6 in the revised Volume II; on page 252-I of the early Volume II and on page 870 of the Radiotron Complete Manual.. The receiver model 81, 82 (245) is on page Erla 1-5 in the revised Volume I; on page 252-C in the early Volume I and on page 871 in the Complete Manual. The model 81-P, 82-P, 30 (248) is on page Erla 3-2 in Volume III and on page 872 of the Complete Manual.

Volumes III, IV, V, VI, VII, VIII, and IX pages require no comment, since their identity is established by the numerals 3, 4, 5, 6, 7, 8, or 9 which precede the page number.

When seeking any page, remember that the manufacturers' names are arranged alphabetically and that the trade names are shown in connection with the folios. Sometimes more than one model using the same chassis is listed upon the same line. Where a chassis is used in more than one model, the extra model numbers appear in their numerical order, referring back to the lowest model number. Chassis numbers are also listed numerically and cross indexed to the lowest model number.

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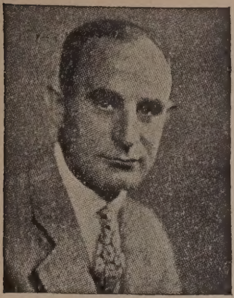

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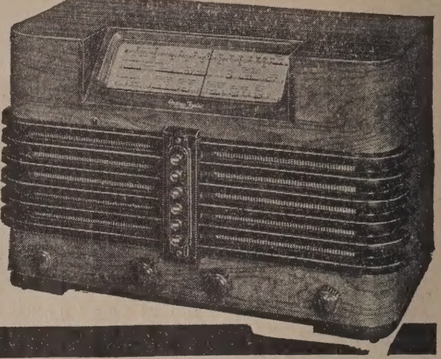
F. A. D. ANDREA re-enters the domestic radio field with the greatest line he has produced in 30 years.

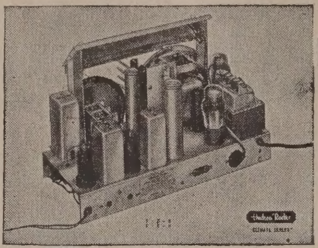
A MERCHANDISING PLAN PROFITABLE TO DEALERS

AUTOMATIC Push-A-Button tuning—"Climate Sealed" construction—the most beautiful cabinets in the industry—a proved merchandising policy that assures jobbers and dealers adequate profits without dumping, price cutting—that's what Frank Andrea offers his many old friends in the domestic radio field.



MODEL 2-E-6: Most admired among all 1939 table models is this distinctive Andrea 6-tube, 3-band receiver available for AC or AC-DC. H. 10¾ ins., W. 17¼ ins., D. 9⅛ ins.

The new Andrea line for 1939 is the result of tests made under the most difficult reception conditions in over 90 countries throughout the world. Tremendous investments have been made in research, in engineering and in new circuits, to produce America's finest radio receiver.



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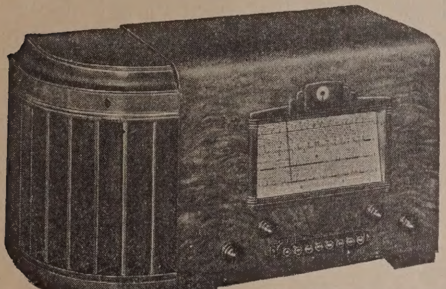
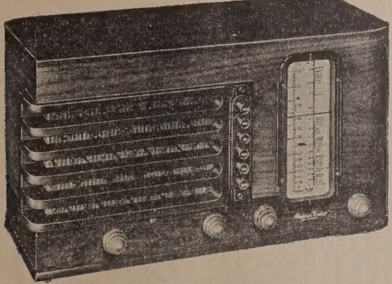
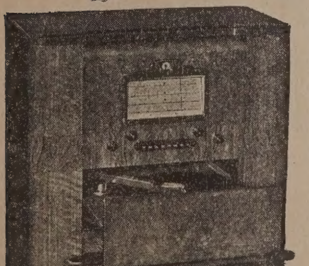


(Above) MODEL 2-E-8: Superpower 8-tube set, in cabinet of rich, classic design. Dial has Andrea "Talking Lights." H. 12⅜ ins., W. 19¼ ins., D. 9¾ ins.

(Below) MODEL 12-E-6: Six-tube model that packs the power of last years 8-tube sets. Walnut and rosewood cabinet of rare beauty. H. 9 ins., W. 16½ ins., D. 7⅞ ins.





MODEL 8-E-11: Startling innovation! Phono-radio with "Andrea Disappearing Turntable" — beautiful, convenient, original —the feature combination of 1939. Available for A C or AC-DC. 8 or 11 tubes AC, 12 tubes (plus 3 ballast tubes) A C-DC. H. 40¼ ins., W. 26 ins., D. 15¾ ins.

Push-a-Button

Automatic TUNING

Instantaneous and trouble-free

CLIMATE SEALED

Tested from Equatorial Africa to the far North. Impervious to temperature change, humidity and salt water dampness.

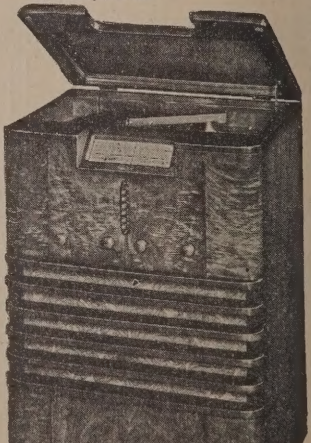
There's More Money in Radio With the Andrea Line

"To produce a fine radio receiver is only part of the obligation of a manufacturer, as I see it. Equally important is the obligation to so conduct the business that it is **profitable to jobber and dealer.** Much of the success of my former company—while under my ownership and management, was due to my recognition of this vital principle. The same sound policies prevail at Andrea Radio Corp. You'll find it literally true that 'there's more money in radio with the Andrea line'."

F. A. D. ANDREA

Dealers, don't delay. Phone, wire or write for full details today. Address ANDREA RADIO CORP., 4825—48th Ave., Woodside, Long Island, N. Y.

MODEL 6-E-6: phono-radio features Andrea type sloping dial. MODEL 4-E-6 console has top compartment where turntable and pick-up can be installed subsequently. AC or AC-DC models available. H. 34¾ ins., W. 24 ins., D. 17 ins.



Andrea Radio

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AMRAD CORPORATION

Also see CROSLEY

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ANDREA RADIO CORP.

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6. All tests of the RF and IF channels are made easily, quickly and accurately. Nothing is left to doubt. There is no guesswork.

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See How any and every check of the operation of the audio-frequency channel is made with the use of a single probe!

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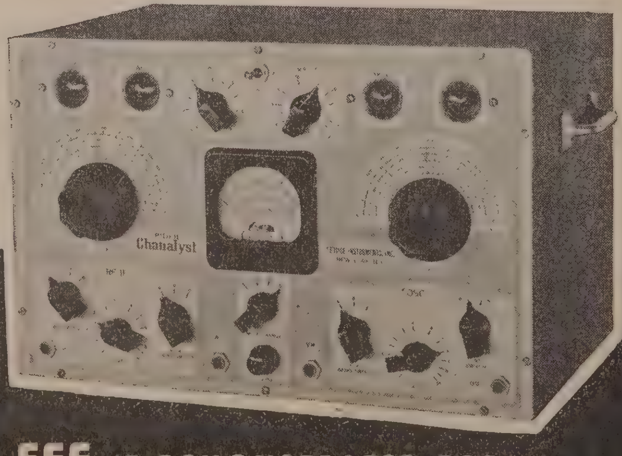

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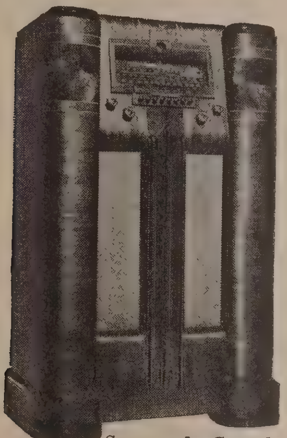
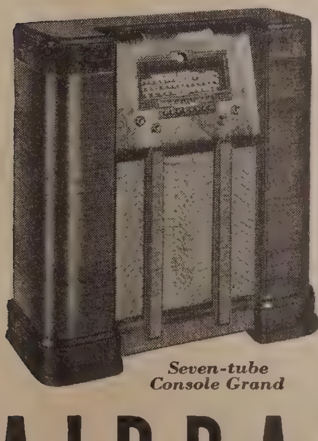


Seven-tube Console



Seven-tube Console Grand

● The new series of Fairbanks-Morse radios is built for the *profitable* type of customer who *can* and *will* buy when he (or she) sees and *hears* the difference between these and ordinary radios. There is not a "me, too" model in the line—not one that is like some other radio the prospect has seen elsewhere. Each is a *fine* musical instrument that gives a new thrill to listening. The line includes *no superfluous stock* which serves only to increase inventory. There are no short-discount models. You get your normal and rightful profit from every sale, while selling is made easier by a name that has enjoyed public confidence for more than 100 years. For complete details, write or wire Fairbanks, Morse & Co., Home Appliance Division, 2060 Northwestern Ave., Indianapolis, Ind.

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WORTH-WHILE FEATURES:

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- **Monitor Panel**
- **Cabinetry of highest quality with interlocking construction**
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- **Plus the most startlingly realistic tone you have ever heard in a radio**

FAIRBANKS-MORSE RADIO

A TRULY *fine* RADIO

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FEDERATED PURCHASER

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FIRST NATIONAL RADIO CORP.

See BALKEIT RADIO CO.

FORD MOTOR CAR CO.

See also PHILCO RADIO & TELEVISION CORP.

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FREED MFG. CO., INC.

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FREED TELEVISION & RADIO CORP.

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JESSE FRENCH EXPORT CO.

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JESSE FRENCH & SONS PIANO CO.

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CHARLES FRESHMAN CO., INC.

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FROST-MINTON

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Motorola

America's Finest **AUTO RADIO**

Always First With the Latest

FOR nine successive years Motorola has built America's outstanding automobile radio. Hundreds of thousands of satisfied Motorola owners offer proof that Motorola engineers have produced finer listening quality, greater sensitivity and better all-round performance.

Motorola's success is a worthy achievement—an unparalelled record. From the start Motorola engineers have pioneered and developed every major automobile radio feature. They have consistently designed car radio receivers with the Service Man uppermost in mind. They have led the industry toward greater compactness, quicker installation, speedier inspection and easier servicing, so that Service Men could more efficiently install and service car radio with a minimum of effort.

Motorola research and development never stop. Motorola engineers are never satisfied—not even with the best. They are constantly at work developing better circuits, improving old features and creating new ones. As a result, Motorola's record reveals contribution after contribution to more efficient car radio performance. Born to quality standards, Motorola is geared to maintain the No. 1 position in car radio. The Service Man's problems are our problems. We welcome constructive ideas.

Motorola Auto Radio Firsts:

Vibrator Type Power Supply
Self-Contained—All-Electric
Steering Post Control
Eliminode Filter System
Push-Pull Amplification
Electro-Dynamic Speaker
Pentode Tubes
Airplane Dial Universal Control Head
"Magic Eliminode"—No Spark Plug Suppressors
Dash Mountings to Match Every Car
"Acoustinator" Personal Preference Selector
Cold Cathode Rectifier Tubes
Permanent Magnet Dynamic Speakers
Wrist Watch-thin Single Unit Controls
Electric Push-Button Automatic Tuning

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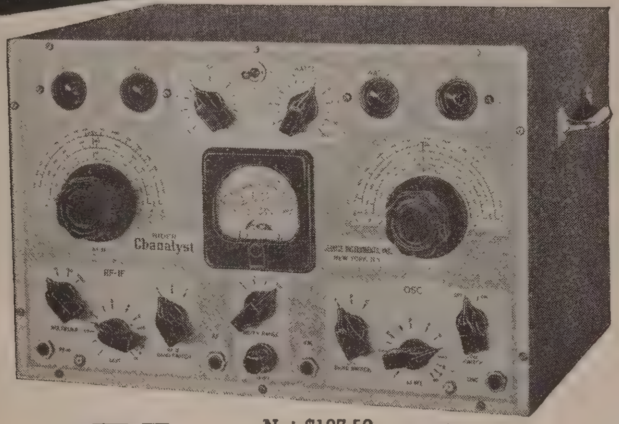

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GENERAL TELEVISION, INC.

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GRAYBAR ELECTRIC CO.

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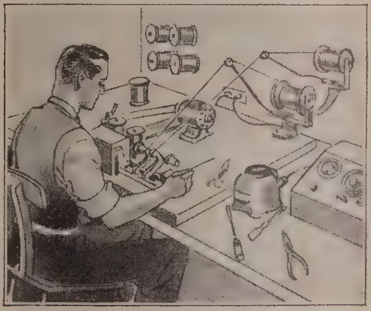

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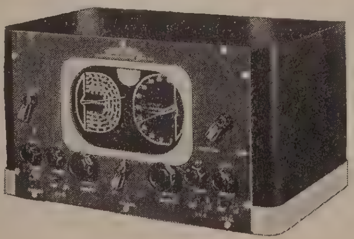

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MIRACULOUSLY, or otherwise, Kadette has required a minimum of service. With this statement, we believe, you, as a service man, will agree. Therefore, our replacement parts business is not great. Nevertheless, we do wish to bring to your attention two facts. ¶ First, we do maintain a most modern and thoroughly equipped service department for those who do, occasionally, require authentic Kadette parts. It should be obvious that only with genuine parts is maximum performance assured. ¶ Second, Kadette tubes are superior. We buy the "cream of the crop," selecting the best types made by a number of leading licensed manufacturers. Kadette, being engineered to these particular tubes, requires Kadette tubes for maximum performance. All other makes of receivers will be helped through their use. ¶ We will be happy indeed to supply you with our price and discount sheets, service data, or other material which you may require.

I. J. Benson, SERVICE MANAGER

INTERNATIONAL RADIO CORPORATION
ANN ARBOR, MICHIGAN

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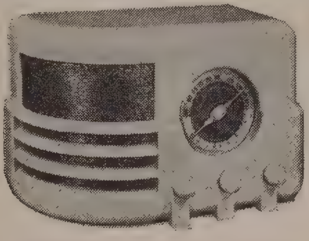

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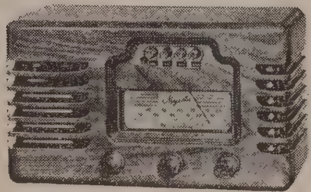

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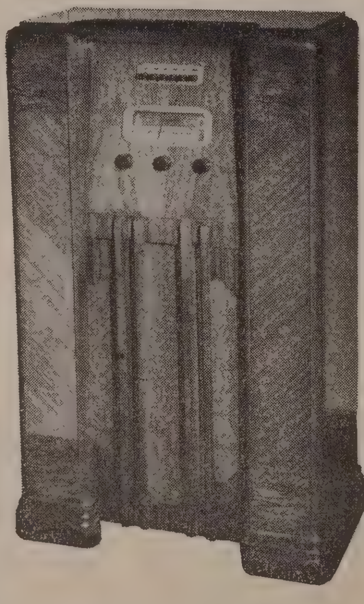

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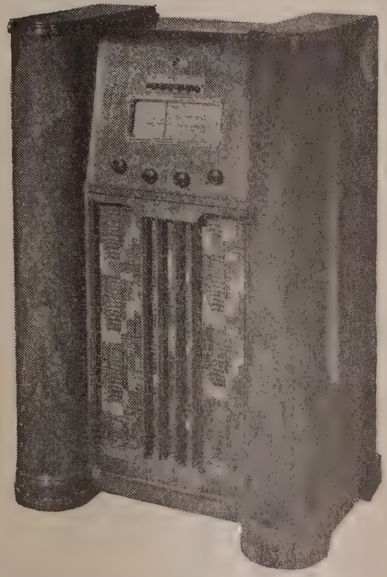

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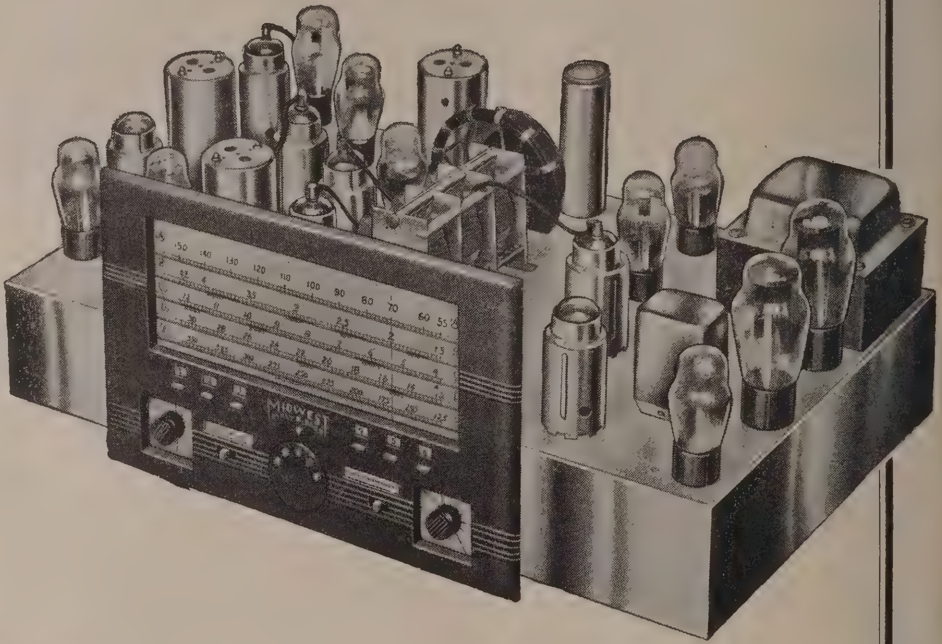

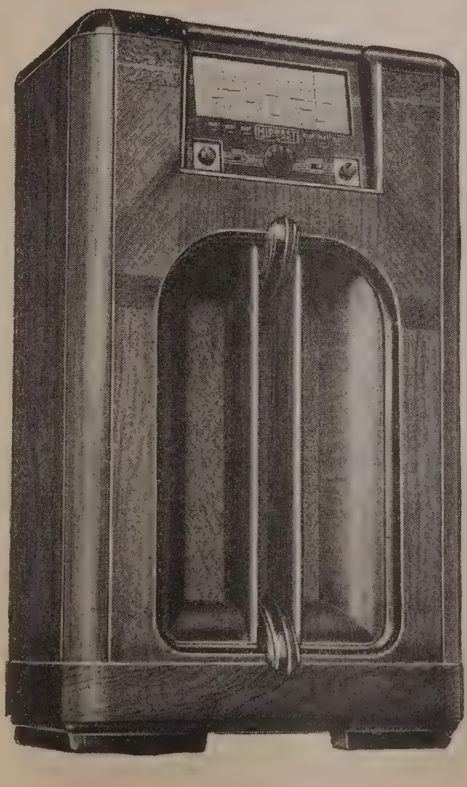

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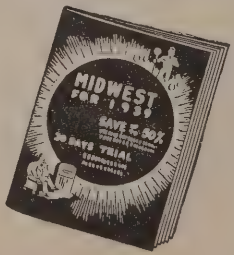

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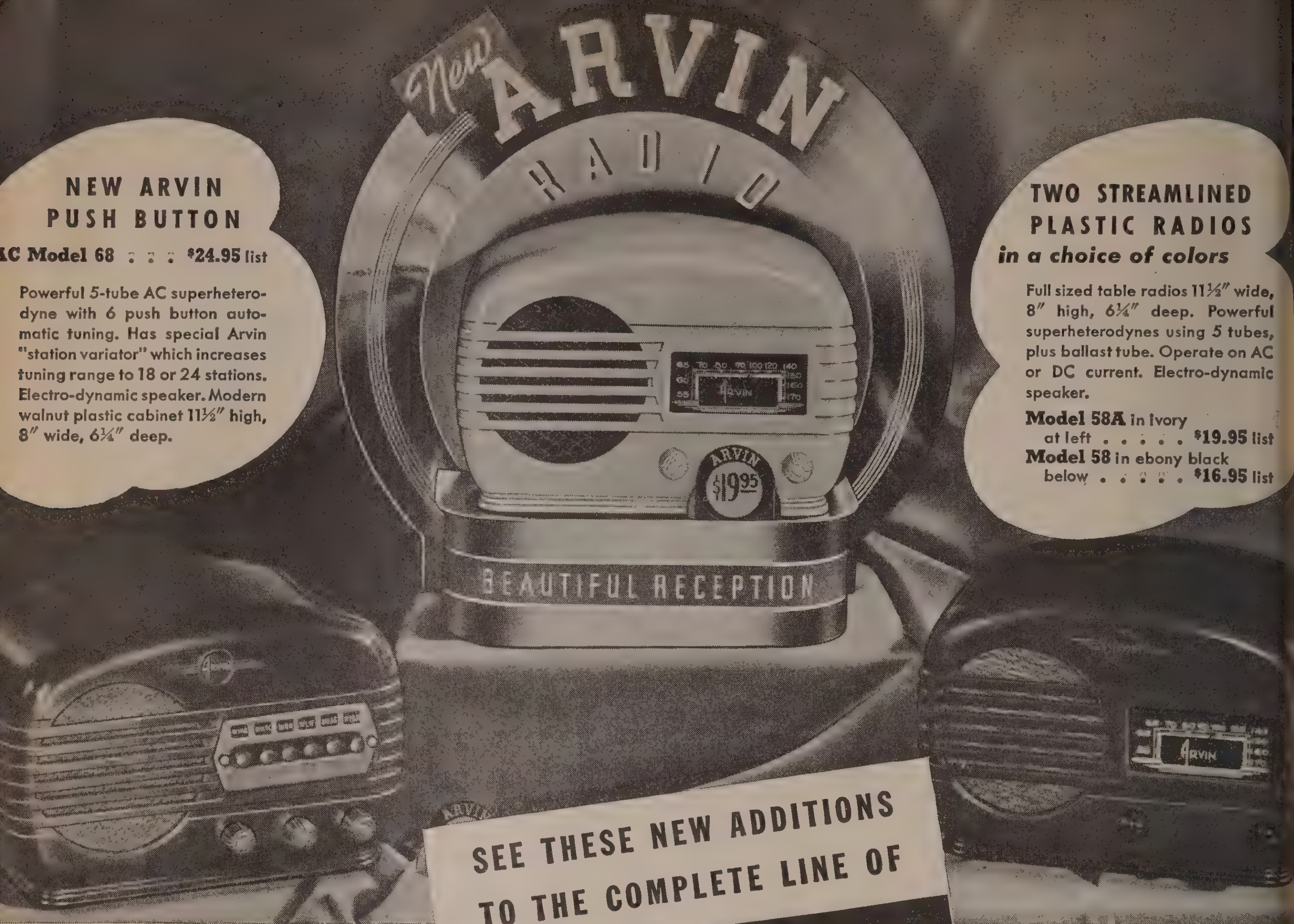

NEW ARVIN PUSH BUTTON

C Model 68 . . . $24.95 list

Powerful 5-tube AC superheterodyne with 6 push button automatic tuning. Has special Arvin "station variator" which increases tuning range to 18 or 24 stations. Electro-dynamic speaker. Modern walnut plastic cabinet 11½″ high, 8″ wide, 6¼″ deep.

TWO STREAMLINED PLASTIC RADIOS

in a choice of colors

Full sized table radios 11½″ wide, 8″ high, 6¼″ deep. Powerful superheterodynes using 5 tubes, plus ballast tube. Operate on AC or DC current. Electro-dynamic speaker.

Model 58A in Ivory at left . . . . . $19.95 list

Model 58 in ebony black below . . . . . $16.95 list

SEE THESE NEW ADDITIONS TO THE COMPLETE LINE OF

ARVIN RADIOS

MODERN STYLING
ATTRACTIVE PRICES
BEAUTIFUL RECEPTIO

Right—New Arvin Model 88 with lid raised to show phonograph turn table.

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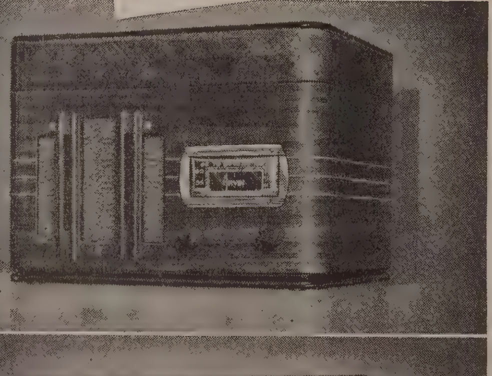
AC Model 88 . . $39.95 list

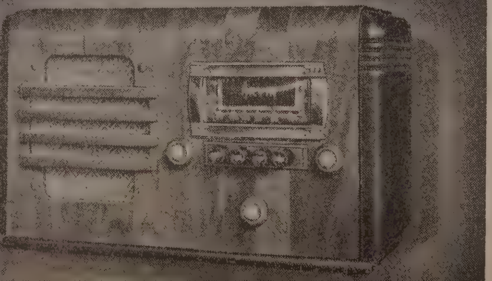
You can cash in on the popularity of radio-phonograph with this table model. Improved pick-up reproduces voice and musical recordings beautifully through the Arvin circuit. Plays 10″ and 12″ records. Has 6-tube superheterodyne circuit with 6″ electro-dynamic speaker. Provides fine selectivity and splendid tonal range.



NEW ARVIN Push Button AND DIAL TUNING

AC Model 78 . . $29.95 list

A powerful broadcast and short wave superheterodyne receiver with full electro-dynamic speaker, covering 540-1750 kc. and 5.75-18.0 mc. Combines the convenience of 4-station push button tuning for a few preferred national chain stations and the flexibility of dial tuning for general station coverage. Cabinet 9″ high, 14¾″ wide, 6¾″ deep.



● These new Arvins are fine radios—quality sets in every detail of appearance and performance. They are not to be confused with the many midget radios on the market today.

Five models, including the radio-phonograph, meet the demand of thousands of users—giving you the sales appeal of push button tuning, dial tuning or a combination of both in table radios. You can sell these new Arvins in volume—they're so reasonably priced.

The modernistic gold foil display, shown above, with the new plastic Arvins is a honey of a merchandiser. This window-counter display catches the eye—and really glorifies the new streamlined sets. The display is free with an order for any three table radios. Ask your jobber. Noblitt-Sparks Industries, Inc., Columbus, Indiana.

Prices slightly higher in extreme South and West.

ASK FOR CATALOG showing complete line of table models, consoles, chairside radios and battery radios.

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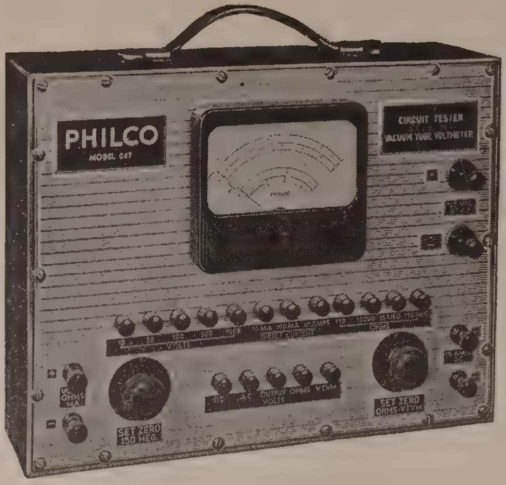

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PIERSON—DELANE CO.

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PLAZA MUSIC CO.

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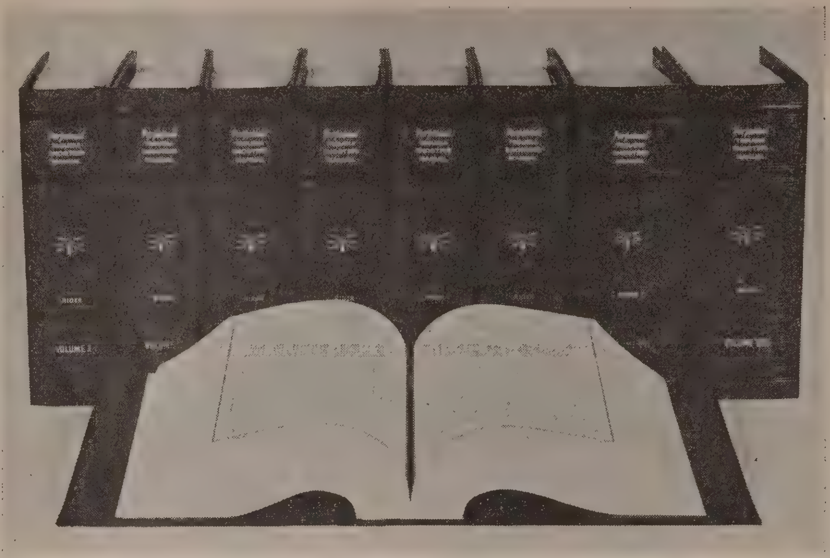

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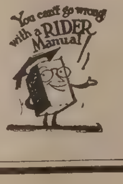
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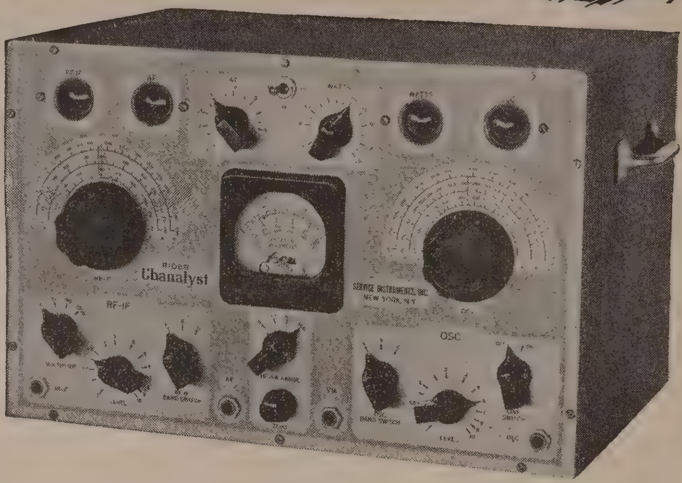

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STRATFIELD

See ELECTRIC SPECIALTIES EXPORT CO.

STROMBERG-CARLSON TEL. MFG. CO.

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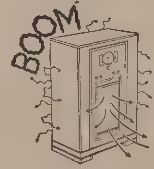
SEE SOUND DISAPPEAR!

SEE and HEAR
HOW THE STROMBERG-CARLSON LABYRINTH WORKS

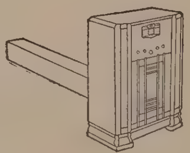
TAKE THE Stromberg-Carlson LABYRINTH PROVING TEST

YOU'VE heard a lot about how Stromberg-Carlson's patented Labyrinth eliminates distortion from radio tone, but probably you've never had its effects proven to you. Why not visit a nearby Stromberg-Carlson dealer to see a demonstration that proves all the things we say about Labyrinth Radio? Your dealer has special laboratory equipment on his floor for giving these tests. He will be glad to tell you all about it and answer any questions on Stromberg-Carlson servicing that you may want to ask.

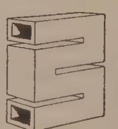
Why A Console Radio Needs The Labyrinth



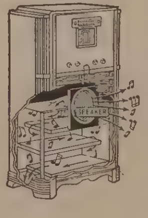
The Trouble—Empty cabinet space in back of the speaker causes "boom" and distorts the pure tone from the front of the speaker.



The Theory—A long tube of sound absorbent material at the back would absorb the unwanted sounds and reinforce the low bass tones.



The Theory Made Practical—Such a tube is out of the question. So Stromberg-Carlson folded this tube into a Labyrinth.



The Labyrinth—In one of the Stromberg-Carlsons. It is the necessary baffle wrapped up, folded over and placed in the troublesome space in the cabinet. Patented in U.S.A. and Canada.

There Is Nothing Finer than a

Stromberg-Carlson

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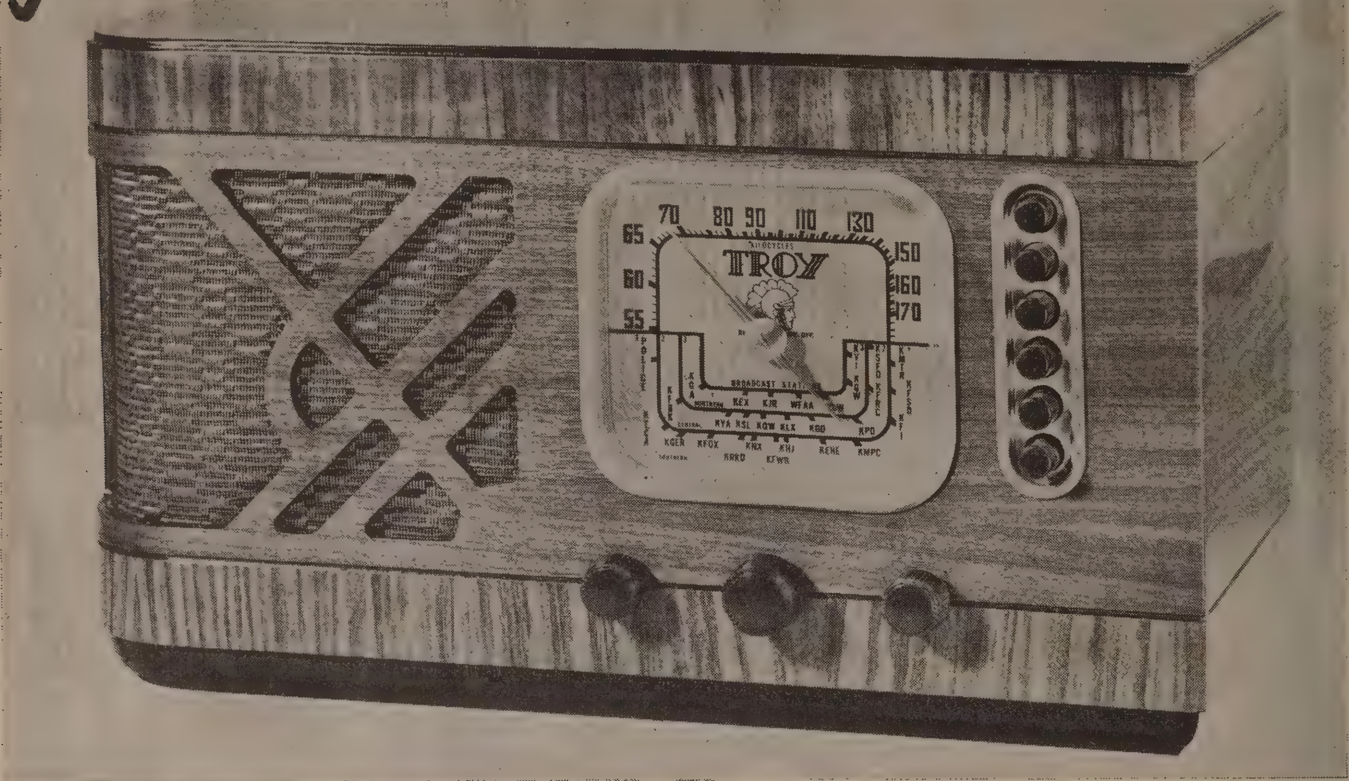

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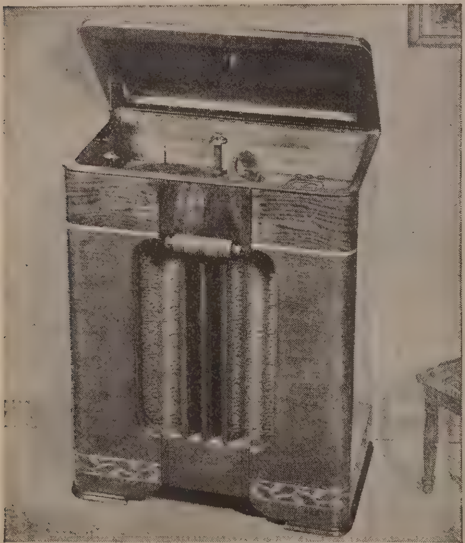

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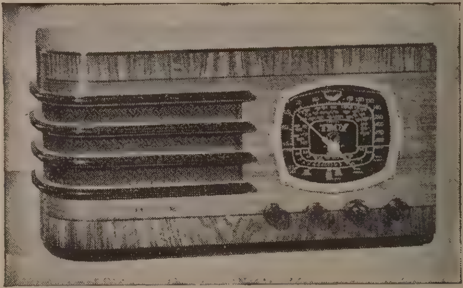

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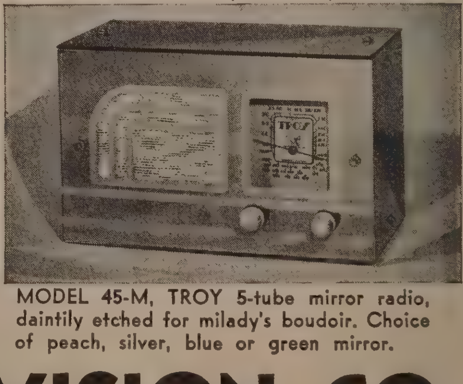

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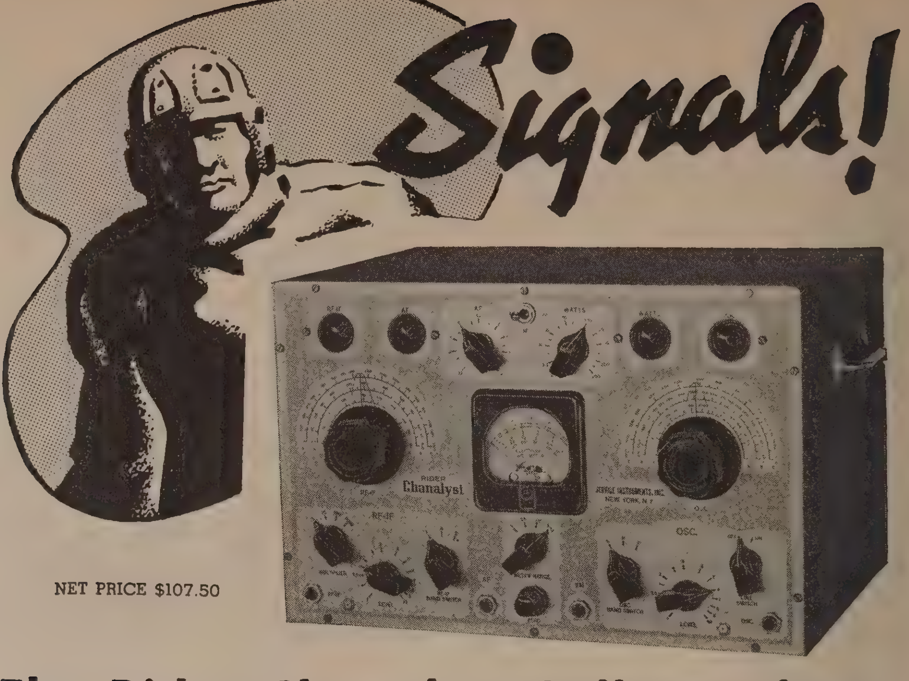
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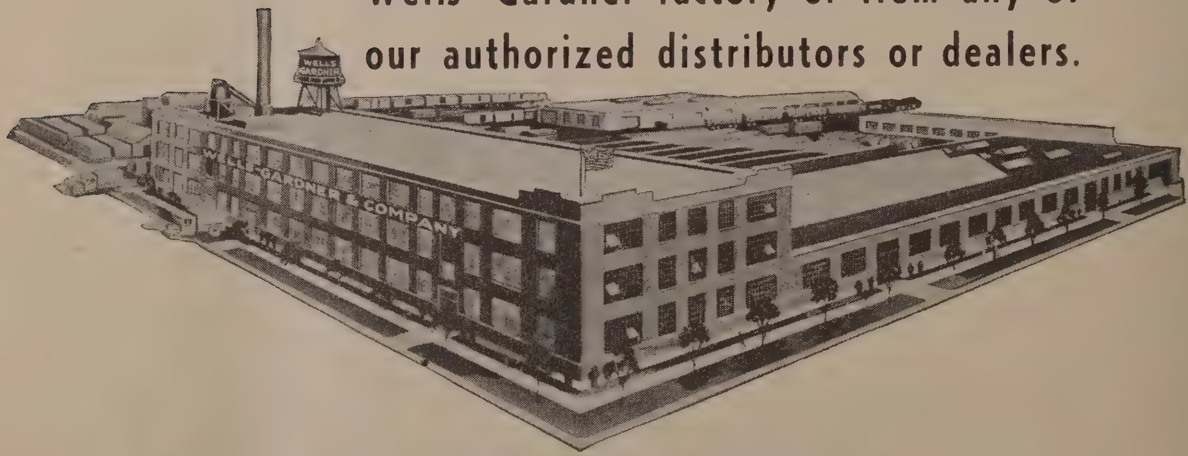

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WESTERN RADIO MFG. CO.

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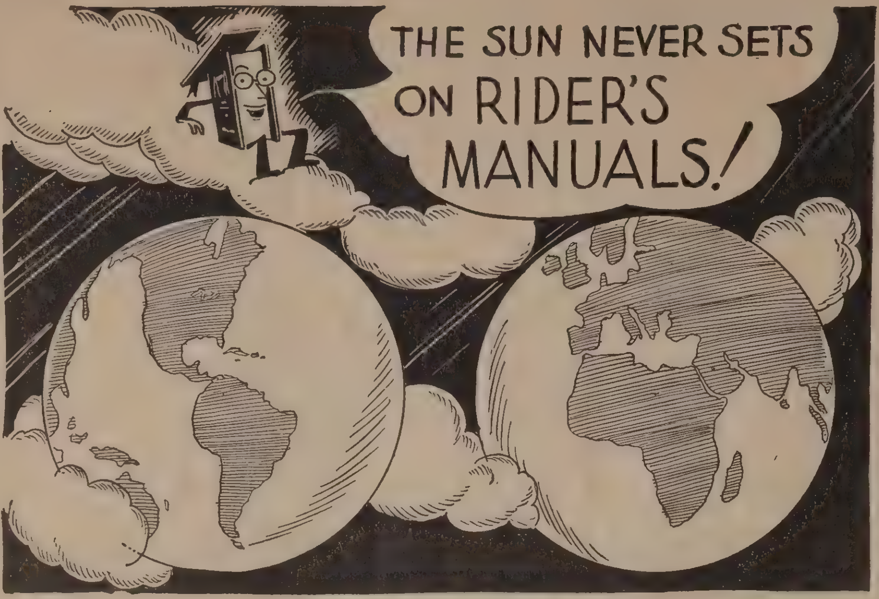
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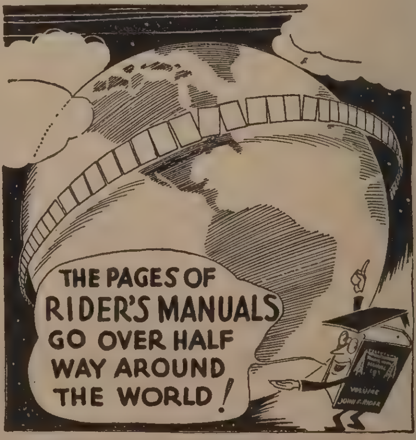
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Appendix —Intermediate Peak Frequencies of Commercial Receivers with Model Numbers

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